NAHIAN KABIR SIAM

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Dhaka, Bangladesh



Computer Science & Engineering Student | Data Science | Machine Learning | AI

PROFESSIONAL SUMMARY

Data Science-focused Computer Science and Engineering student with hands-on experience in data analysis, machine learning, and developing data-driven solutions to real-world problems. Skilled in Python, SQL, Pandas, NumPy, Matplotlib, Seaborn, and Scikit-learn, with experience in data cleaning, EDA, feature engineering, visualization, statistical analysis, model training, evaluation, and ML pipeline development. Familiar with supervised learning techniques including regression and classification, along with algorithms such as Random Forest, XGBoost, Decision Trees, SVM, KNN, and Logistic Regression. Developed practical projects in areas including renewable energy forecasting, sentiment analysis, and predictive modeling, with exposure to Flask-based model deployment. Strong analytical, problem-solving, and self-learning abilities, with a clear career goal of building impactful solutions in Data Science, Artificial Intelligence, and Machine Learning.

EDUCATION

East West University, Dhaka, Bangladesh

Bachelor of Science (B.Sc.) in Computer Science & Engineering (CSE) | 2023 – Present

Galachipa Government College , Galachipa, Patuakhali

Higher Secondary Certificate (HSC) | 2022

Galachipa Govt. Model High School , Galachipa, Patuakhali

Secondary School Certificate (SSC) | 2020

ACADEMIC PROJECTS

Credit Score Prediction using Machine Learning

Technologies: Python, Scikit-learn, Pandas, Flask, HTML, CSS, Bootstrap

- Developed a full-stack machine learning application to predict customer credit scores using financial data.
- Performed data preprocessing, feature engineering, exploratory data analysis, and machine learning model development.
- Implemented predictive modeling using Scikit-learn and integrated the trained model with a Flask-based web application.
- Designed a user-facing interface using HTML, CSS, and Bootstrap for interactive credit-score prediction.

Customer Churn Prediction

Technologies: Python, Pandas, Scikit-learn, Matplotlib, Machine Learning

- Developed a machine learning classification pipeline to predict customer churn.
- Performed data preprocessing, exploratory data analysis, feature scaling, and feature preparation.
- Applied classification techniques to identify customers at risk of leaving a service.
- Evaluated model performance using appropriate classification metrics.

Solar Energy Generation Prediction

Technologies: Python, Pandas, NumPy, Scikit-learn, Random Forest, XGBoost, Matplotlib, Flask

- Developed regression models to predict solar energy generation from weather and related data.
- Performed data cleaning, exploratory data analysis, feature engineering, and model evaluation.
- Implemented and compared machine learning models including Random Forest and XGBoost.
- Developed a Flask-based REST API to serve real-time model predictions.

Personal Finance Tracker

Technologies: Python, SQLite, Pandas, Matplotlib

- Developed a Python-based personal finance tracking application using SQLite for data storage.
- Implemented income, expense, and balance tracking functionality.
- Used Pandas for financial data processing and Matplotlib for data visualization.
- Designed the project to provide visual insights into personal financial activity.

System Hardware & Environment Monitor

Technologies: Python, System Monitoring, Hardware Information, Windows

- Developed a lightweight Python-based system monitoring tool for Windows environments.
- Implemented real-time monitoring of CPU, GPU, RAM, storage, network status, and operating system information.
- Designed the application to provide a centralized overview of system hardware and environment information.

CORE COMPETENCIES

- Machine Learning • Deep Learning • Artificial Intelligence (AI) • Natural Language Processing (NLP) • Computer Vision • Predictive Analytics • Data Analysis • Data Visualization • Feature Engineering • Model Deployment • REST API Development • Python • SQL • TensorFlow • Scikit-learn • Flask • FastAPI • Git & GitHub • Problem Solving • Research & Innovation

Programming Languages : Python • SQL • C • C++ • Java

Machine Learning & Artificial Intelligence:
Machine Learning • Deep Learning • Computer Vision • Natural Language Processing (NLP) • Image Processing • Data Preprocessing • Feature Engineering • Exploratory Data Analysis (EDA) • Model Evaluation

Frameworks & Libraries : Scikit-learn • TensorFlow • Keras • Flask • FastAPI • Pandas • NumPy • OpenCV • Matplotlib • NLTK

SOFT SKILLS

- Analytical Thinking
- Problem Solving
- Time Management
- Adaptability
- Continuous Learning
- Attention to Detail

LANGUAGES

- Bangla (Native)
- English (Professional Working Proficiency)

DECLARATION

I hereby declare that the information provided in this Curriculum Vitae is true, accurate, and complete to the best of my knowledge and belief. I take full responsibility for the authenticity of the information stated herein.

NAHIAN KABIR SIAM
Signature